

What is claimed is:

1. A motor provided with:

a stator having cores and coils;

5 a rotor having a permanent magnet arranged in a ring shape on the radial inner side of said stator, facing said cores and coils; and

a fluid dynamic bearing which rotatably supports said rotor with respect to said stator,

10 wherein said fluid dynamic bearing is provided with:

a shaft body fixed to said rotor;

a shaft body support part, which has a closed end and is fixed to said stator, in which a shaft body insertion hole is formed for rotatably accommodating said shaft body;

15 and

a fluid which is filled into a clearance formed between said shaft body and said shaft body insertion hole,

and said shaft body is provided with;

20 a thrust shaft part formed in a flange shape in an axial central part, and

a radial shaft part and a support part which are formed cylindrically on the opposite axial sides of said thrust shaft part,

and said shaft body support part is provided with:

a small diameter cylinder part which forms a closed end side of said shaft body insertion hole, and into which said radial shaft part is inserted such that it rotates freely;

5 a large diameter cylinder part which forms an open end side of said shaft body insertion hole, and into which said thrust shaft part is inserted such that it rotates freely; and

a counter plate which covers the open end of said
10 shaft body insertion hole, and forms a capillary seal between itself and said support part,

and there is provided a dynamic pressure generation unit comprising said fluid, and dynamic pressure generating grooves formed in at least one of the outer faces of said
15 thrust shaft part and said radial shaft part, and the inner face of said shaft body insertion hole facing these outer faces.

2. A motor according to claim 1, wherein a ratio of the
20 outer diameter of said thrust shaft part, to the outer diameter of said permanent magnet is approximately 1 to 2.

3. A motor according to claim 1, wherein said permanent magnet is only fixed on an axial direction surface of said
25 rotor, and an inner peripheral surface of said permanent

magnet located on an opposite side to an outer peripheral surface facing said cores and said coils is open.

4. A recording medium drive device provided with the
- 5 motor according to claim 1, and said rotor is provided with a fixing part for attaching a sheet type recording medium.